

# **PUBLIC NOTICE**

## **PERMIT APPLICATION: NRS 06.009**

**APPLICANT:** Memphis Refinery  
543 West Mallory Avenue  
Memphis, Tenn. 38109  
901-947-8454

**LOCATION:** Memphis Refinery, McKellar Lake in Memphis, Shelby County, Tenn.  
35.0868 °N, -90.0892 °W

**WATERSHED DESCRIPTION:** McKellar Lake is in the Lower Mississippi-Memphis watershed (HUC TN08010100). McKellar Lake is assessed as not supporting its recreation classified use. The classified uses include industrial water supply, navigation, fish and aquatic life, and recreation. Fishing advisory issued due to legacy organic contaminants in fish tissue. McKellar Lake is listed as impaired by chlordane, PCBs, organic enrichment/low DO, pathogens, dioxin and siltation. Sediment analysis conducted in 2005 yielded positive results on certain contaminants of concern. A risk analysis indicated low risk, though, for dredging when dredged materials are disposed upland on Treasure Island or the site known as the Western Disposal Area.

McKellar Lake is an embayment of the Mississippi River located at the mouth of Nonconnah Creek. McKellar Lake is the location for the International Port of Memphis. The port handles bulk commodities including petroleum, crude materials, food and farm products, coal and manufactured goods.

**PROJECT DESCRIPTION:** The applicant proposes to dredge accumulated sediments from waterfront docks to aid in barge access. The area proposed for dredging is approximately 950 feet long and 300 feet wide with depths ranging up to 17 feet below the zero river gauge. Approximately 30,000-50,000 cubic yards of sediment, total would be dredged. Dredging will be accomplished by two basic schemes, depending on equipment availability. Dredging can be accomplished by mechanical bucket, and placed on a barge and transferred to the “Western Dredge Receiving Area.” Dredging can also be accomplished by a cutterhead dredge and pumping the dredged material to the Treasure Island disposal area.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the activity will not result in degradation to water quality.

**PERMIT COORDINATOR:** Juliana W. Kyzar

**USGS TOPOGRAPHIC QUADRANGLE:** Southwest Memphis 404 SW

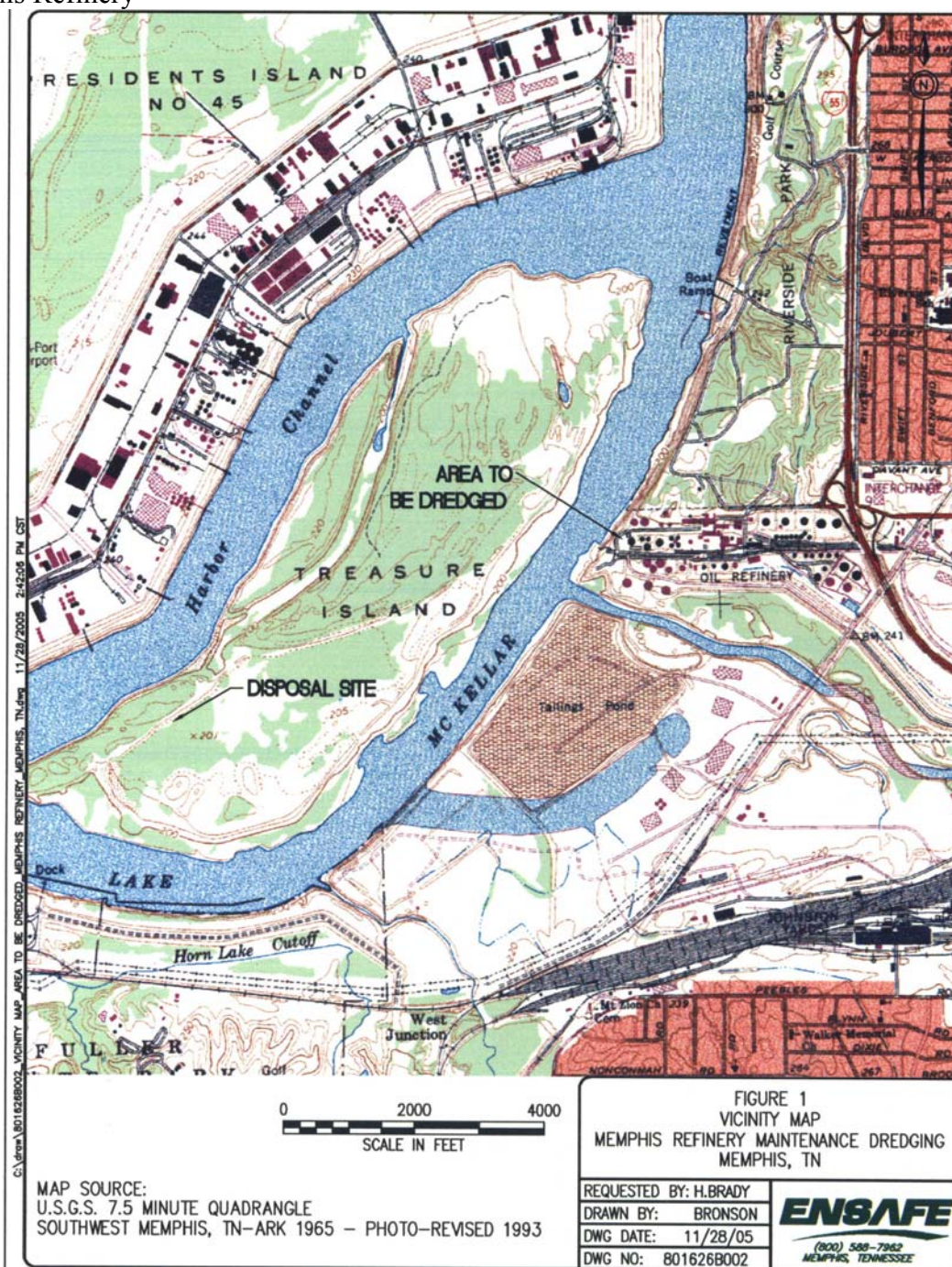


Figure 1: USGS 7.5-minute topographic map with project area indicated



**Figure 2:** Memphis Refinery Docks



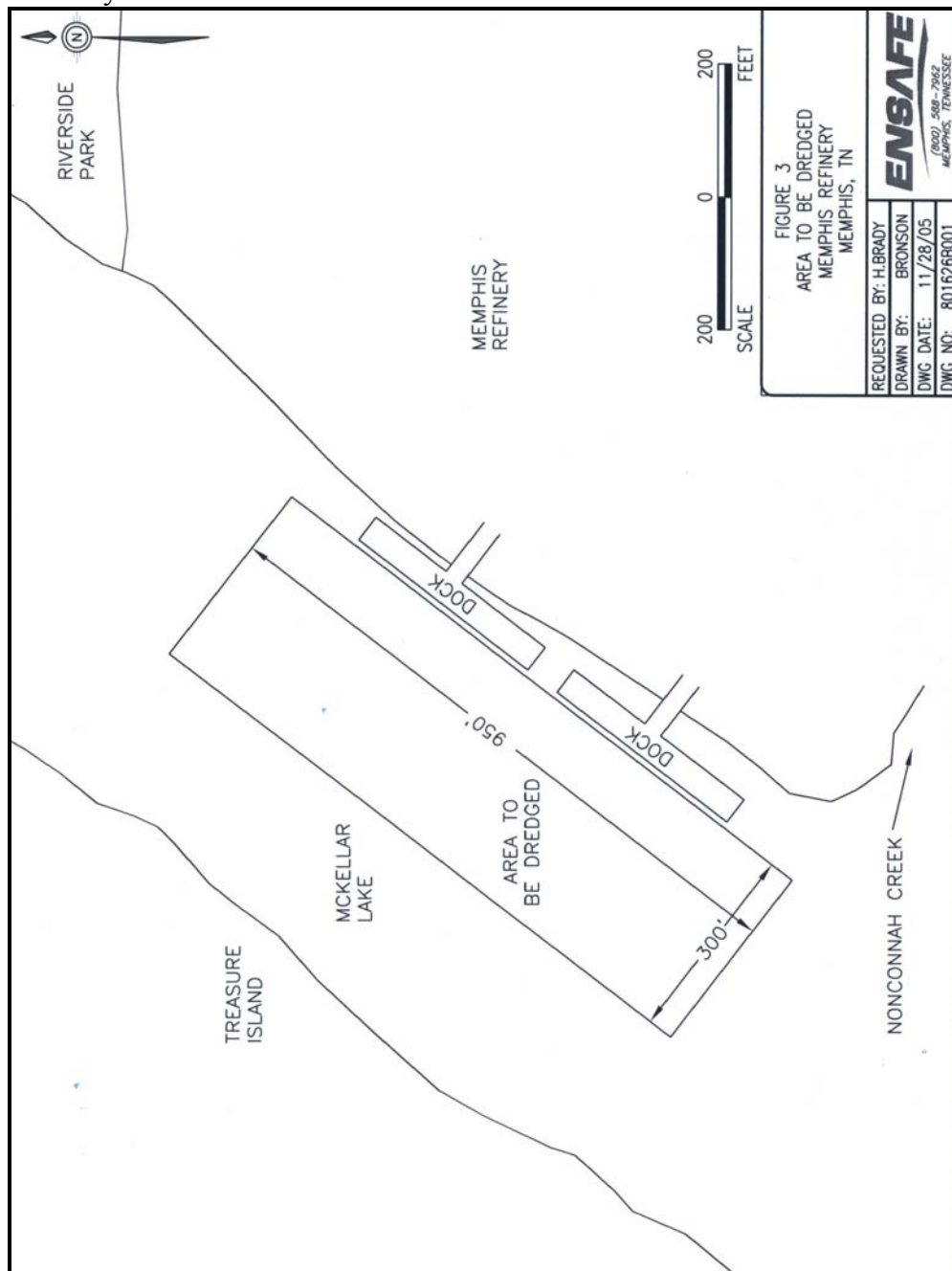


Figure 3: Area of proposed dredging